

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
3 March 2005 (03.03.2005)

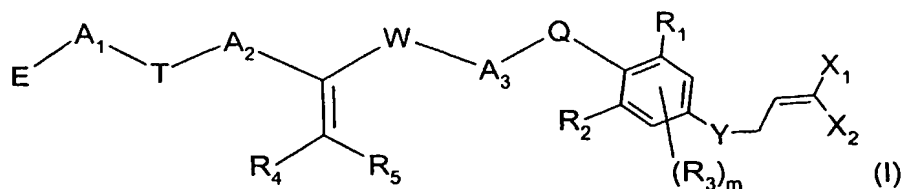
PCT

(10) International Publication Number  
**WO 2005/019147 A3**

- (51) International Patent Classification<sup>7</sup>: **A01N 37/20**, 31/16, 35/10, 43/40, 43/56, 43/54, 43/10, 43/80, 43/713, 43/653, 43/82, 43/84, C07C 231/02, 43/225, 249/08
- (74) Common Representative: **SYNGENTA PARTICIPATIONS AG**; Intellectual Property, P.O. Box, CH-4002 Basel (CH).
- (21) International Application Number: **PCT/EP2004/009500**
- (22) International Filing Date: 25 August 2004 (25.08.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
01454/03 26 August 2003 (26.08.2003) CH
- (71) Applicant (for all designated States except US): **SYNGENTA PARTICIPATIONS AG [CH/CH]**; Schwarzwaldallee 215, CH-4058 Basel (CH).
- (72) Inventors; and  
(75) Inventors/Applicants (for US only): **ZAMBACH, Werner [CH/CH]**; Syngenta Crop Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH). **TRAH, Stephan [DE/CH]**; Syngenta Crop Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH). **HALL, Roger, Graham [GB/CH]**; Syngenta Crop Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH). **LUTZ, William [CH/CH]**; Syngenta Crop Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— with international search report  
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report:  
7 April 2005

[Continued on next page]

(54) Title: PESTICIDALLY ACTIVE PHENOL DERIVATIVES



(57) Abstract: There are described compounds of formula (I) wherein  $X_1$  and  $X_2$  are each independently of the other fluorine, chlorine or bromine;  $A_1$  and  $A_2$  are, for example, a bond or a  $C_1$ - $C_6$ alkylene bridge;  $A_3$  is a  $C_1$ - $C_6$ alkylene bridge;  $R_1$  and  $R_2$  are, for example, halogen, OH, SH, CN, nitro,  $C_1$ - $C_6$ alkyl,  $C_1$ - $C_6$ haloalkyl,  $C_1$ - $C_6$ alkyl-carbonyl,  $C_2$ - $C_6$ alkenyl,  $C_2$ - $C_6$ haloalkenyl or  $C_3$ - $C_6$ alkynyl;  $R_3$  is, for example, H, halogen, OH, SH, CN, nitro,  $C_1$ - $C_6$ alkyl or  $C_1$ - $C_6$ haloalkyl;  $R_4$  and  $R_5$  are, for example, H, halogen, cyano, nitro,  $C_1$ - $C_6$ alkyl or  $C_1$ - $C_3$ haloalkyl;  $m$  is 1 or 2;  $Y$  is, for example, O, S, SO or  $SO_2$ ;  $Q$  is, for example, O, S, SO or  $SO_2$ ;  $W$  is, for example, a bond, O, S, SO,  $SO_2$ ,  $-C(=O)-O-$  or  $-O-C(=O)-$ ;  $T$  is, for example, a bond, O, S, SO,  $SO_2$ ,  $-C(=O)-O-$  or  $-O-C(=O)-$ ; and  $E$  is aryl unsubstituted or substituted from one to five times or heterocyclyl unsubstituted or, depending upon the possibilities of substitution on the ring, substituted from one to four times; and, where applicable, their possible E/Z isomers, E/Z isomeric mixtures and/or tautomers, in each case in free form or in salt form, a process for the preparation of those compounds and their use, pesticidal compositions in which the active ingredient has been selected from those compounds and agrochemically acceptable salts thereof, a process for the preparation of those compositions and their use, plant propagation material treated with those compositions, and a method of controlling pests.



---

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*